```
110> EZQUERRO SAENZ, Ignacio Jose
      LASARTE SAGASTIBELZA, Juan Jose
      PRIETO VALTUEÑA, Jesus
      BORRAS CUESTA, Francisco
   20> TGFβbl-inhibitor peptides
<130> U-013446-9
<140> 09/831,253
<141> 2001-06-27
<150> PCT/ES99/00375
<151> 1999-11-23
<150> P9802465
<151> 1998-11-24
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<210> SEQ ID NO: 9
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<213> Synthetic peptide from pig endoglin
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<210> SEQ ID NO: 15
<211> 14
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<210> SEQ ID NO: 17
<211> 14
<212> Peptide
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<210> SEQ ID NO: 18
<211> 14
<212> Peptide
<213> Synthetic peptide from human TGB\beta1
<220> Domain: 308-321
<400> Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr His Ala Asn
<210> SEQ ID NO: 19
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<212> Peptide
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<210> SEQ ID NO: 20
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<212> Peptide
<213> Synthetic peptide from human TGB\beta1
<220> Domain: 316-329
<400> Lys Gly Tyr His Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr
<210> SEQ ID NO: 21
<211> 14
<212> Peptide
<213> Synthetic peptide from human TGB\beta1
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<210> SEQ ID NO: 22
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<210> SEQ ID NO: 24
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<210> SEQ ID NO: 26
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<210> SEQ ID NO: 27
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<213> Synthetic peptide from human TGB\beta1
<220> Domain: 344-358
<400> Tyr Asn Gln His Asn Pro Gly Ala Ser Ala Ala Pro Cys Cys
<210> SEQ ID NO: 28
<211> 13
<212> Peptide
<213> Synthetic peptide from human TGB\beta1
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<220> Domain: 348-360
<400> Asn Pro Gly Ala Ser Ala Ala Pro Cys Cys Val Pro Gln
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<212> Peptide
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<400> Gly Ala Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu
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<210> SEQ ID NO: 30
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<220> Domain: 354-367
<400> Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile
<210> SEQ ID NO: 31
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<210> SEQ ID NO: 32
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<400> Pro Leu Pro Ile Val Tyr Tyr Val Gly Arg Lys Pro Lys Val
<210> SEQ ID NO: 33
<211> 14
<212> Peptide
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<220> Domain: 368-381
<400> Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser
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<210> SEQ ID NO: 34
<211> 14
<212> Peptide
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<220> Domain: 372-385
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<210> SEQ ID NO: 35
<211> 14
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<213> Synthetic peptide from human TGBB1
<220> Domain: 378-391
<400> Glu Gln Leu Ser Asn Met Ile Val Arg Ser Cys Lys Cys Ser
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<210> SEQ ID NO: 36
<211> 21
<212> Peptide
<213> Synthetic peptide from human TGB$1
<220> Domain: 322-344
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Leu Ala Leu Tyr
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<213> Synthetic peptide modified from human TGBB1
<220> Domain: 322-335
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<210> SEO ID NO: 38
<211> 14
<212> Peptide
<213> Synthetic peptide modified from human TGB\beta1
<220> Domain: 322-335
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<210> SEQ ID NO: 39
<211> 14
<212> Peptide
<213> Synthetic peptide modified from human TGBB1
<220> Domain: 322-335
<400> Phe Ser Leu Gly Pro Ser Pro Tyr Ile Trp Ser Leu Asp Thr
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<210> SEQ ID NO: 40
<211> 14
<212> Peptide
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<220> Domain: 322-335
<400> Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Asp Asp Asp
<210> SEQ ID NO: 41
<211> 14
<212> Peptide
<213> Synthetic peptide modified from human TGB$1
<220> Domain: 322-335
<400> Asp Asp Asp Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr
<210> SEQ ID NO: 42
<211> 14
<212> Peptide
<213> Synthetic peptide modified from human TGBB1
<220> Domain: 322-335
<400> Asp Asp Asp Gly Pro Cys Pro Tyr Ile Trp Ser Asp Asp Asp
<210> SEQ ID NO: 43
<211> 11
<212> Peptide
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<220> Domain: 325-332
<400> Gly Pro Cys Pro Tyr Ile Trp Ser Asp Asp
<210> SEQ ID NO: 44
<211> 11
<212> Peptide
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<400> Asp Asp Asp Gly Pro Cys Pro Tyr Ile Trp Ser
<210> SEQ ID NO: 45
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<212> Peptide
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<211> 12
<212> Peptide
<213> Synthetic peptide from rat TGB\beta1 type III receptor
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- <210> SEQ ID NO: 47
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- <212> Peptide
- <213> Synthetic peptide from rat TGB β 1 type III receptor
- <220> Domain: 104-115
- <400> Val Phe Leu Leu Asn Ser Pro Gln Pro Leu Val Trp
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- <210> SEQ ID NO: 48
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from rat TGB β 1 type III receptor
- <220> Domain: 109-120
- <400> Ser Pro Gln Pro Leu Val Trp His Leu Lys Thr Glu
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- <210> SEQ ID NO: 49
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from rat TGBB1 type III receptor
- <220> Domain: 110-121
- <400> Pro Gln Pro Leu Val Trp His Leu Lys Thr Glu Arg
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- <210> SEQ ID NO: 50
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from rat TGBB1 type III receptor
- <220> Domain: 333-344
- <400> Trp Ala Leu Asp Asn Gly Tyr Arg Pro Val Thr Ser
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- <210> SEQ ID NO: 51
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from rat TGB β 1 type III receptor
- <220> Domain: 428-439
- <400> Pro Ile Val Pro Ser Val Gln Leu Pro Asp His
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- <210> SEQ ID NO: 52
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from rat TGB $\beta1$ type III receptor
- <220> Domain: 555-566

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<213> Synthetic peptide from rat TGB$1 type III receptor
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<211> 12
<212> Peptide
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- <213> Synthetic peptide from rat TGB\$1 type III receptor
- <220> Domain: 605-616
- <400> Leu Val Pro Ser Pro Gly Val Phe Ser Val Ala Glu 5
- <210> SEQ ID NO: 56
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from rat TGB\$1 type III receptor
- <220> Domain: 707-718
- <400> Glu Leu Thr Leu Cys Ser Arg Lys Lys Gly Ser Leu
- <210> SEQ ID NO: 57
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from rat TGB β 1 type III receptor
- <220> Domain: 712-723
- <400> Ser Arg Lys Lys Gly Ser Leu Lys Leu Pro Arg Cys 10
- <210> SEQ ID NO: 58
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from rat TGBB1 type III receptor
- <220> Domain: 717-728
- <400> Ser Leu Lys Leu Pro Arg Cys Val Thr Pro Asp Asp

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- <210> SEQ ID NO: 59
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from rat $TGB\beta1$ type III receptor
- <220> Domain: 722-733
- <400> Arg Cys Val Thr Pro Asp Asp Ala Cys Thr Ser Leu 5 10
- <210> SEQ ID NO: 60
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from rat TGB β 1 type III receptor
- <220> Domain: 727-738
- <400> Asp Asp Ala Cys Thr Ser Leu Asp Ala Thr Met Ile
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- <210> SEQ ID NO: 61
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from rat TGBB1 type III receptor
- <220> Domain: 732-743
- <400> Ser Leu Asp Ala Thr Met Ile Trp Thr Met Met Gln 5
- <210> SEQ ID NO: 62
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from rat $TGB\beta1$ type III receptor
- <220> Domain: 737-748
- <400> Met Ile Trp Thr Met Met Gln Asn Lys Lys Thr Phe 510
- <210> SEQ ID NO: 63
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from rat $TGB\beta1$ type III receptor
- <220> Domain: 742-752
- <400> Met Gln Asn Lys Lys Thr Phe Thr Lys Pro Leu Ala
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- <210> SEQ ID NO: 64
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from rat TGB\$1 type III receptor
- <220> Domain: 747-758
- <400> Thr Phe Thr Lys Pro Leu Ala Val Val Leu Gln Val

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<212> Peptide
<213> Synthetic peptide from rat TGB\beta1 type III receptor
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<400> Lys Glu Asn Val Pro Ser Thr Lys Asp Ser Ser Pro Ile Pro Pro
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<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGBβ1 type III receptor
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<210> SEQ ID NO: 68
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<212> Peptide
<213> Synthetic peptide from rat TGB\beta1 type III receptor
<220> Domain: 776-790
<400> Pro Pro Pro Gln Ile Phe His Gly Leu Asp Thr Leu Thr Val Met
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<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGBβ1 type III receptor
<220> Domain: 786-800
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<213> Synthetic peptide from rat TGB$\beta$1 type III receptor
<220> Domain: 797-809
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<210> SEQ ID NO: 72
<211> 15
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<213> Synthetic peptide from rat TGB\beta1 type III receptor
<220> Domain: 45-59
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<220> Domain: 65-79
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<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGBβ1 type III receptor
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<400> Leu Asn Leu Arg Ser Thr Asp Gln Gly Pro Gly Gln Arg Gln Arg
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<210> SEQ ID NO: 78
<211> 15
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<213> Synthetic peptide from rat TGB$\beta$1 type III receptor
<220> Domain: 75-89
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<210> SEQ ID NO: 79
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGB\beta1 type III receptor
<220> Domain: 80-94
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<210> SEQ ID NO: 80
<211> 15
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<213> Synthetic peptide from rat TGBβ1 type III receptor
<220> Domain: 85-99
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<210> SEO ID NO: 81
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<213> Synthetic peptide from rat TGBB1 type III receptor
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<400> Leu Asn Pro Ile Ala Ser Val His Thr His His Lys Pro Ile Val
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<210> SEQ ID NO: 82
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGBβ1 type III receptor
<220> Domain: 95-109
<400> Ser Val His Thr His His Lys Pro Ile Val Phe Leu Leu Asn Ser
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<210> SEO ID NO: 83

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<212> Peptide
<213> Synthetic peptide from rat TGBβ1 type III receptor
<220> Domain: 100-114
<400> His Lys Pro Ile Val Phe Leu Leu Asn Ser Pro Gln Pro Leu Val
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<210> SEQ ID NO: 84
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGB\beta1 type III receptor
<220> Domain: 105-119
<400> Phe Leu Leu Asn Ser Pro Gln Pro Leu Val Trp His Leu Lys Thr
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<210> SEQ ID NO: 85
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGB\beta1 type III receptor
<220> Domain: 110-124
<400> Pro Gln Pro Leu Val Trp His Leu Lys Thr Glu Arg Leu Ala Ala
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<210> SEQ ID NO: 86
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGB\beta1 type III receptor
<220> Domain: 115-129
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<210> SEQ ID NO: 87
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGBβ1 type III receptor
<220> Domain: 120-134
<400> Arg Leu Ala Ala Gly Val Pro Arg Leu Phe Leu Val Ser Glu Gly
<210> SEQ ID NO: 88
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGBβ1 type III receptor
<220> Domain: 125-139
<400> Gly Val Pro Arg Leu Phe Leu Val Ser Glu Gly Ser Val Val Gln
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<210> SEQ ID NO: 89

<211> 15

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<212> Peptide
<213> Synthetic peptide from rat TGB$1 type III receptor
<220> Domain: 130-144
<400> Phe Leu Val Ser Glu Gly Ser Val Val Gln Phe Pro Ser Gly Asn
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<210> SEQ ID NO: 90
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGB$1 type III receptor
<220> Domain: 135-149
<400> Gly Ser Val Val Gln Phe Pro Ser Gly Asn Phe Ser Leu Thr Ala
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                         5
<210> SEQ ID NO: 91
<211> 15
<212> Peptide
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<220> Domain: 140-154
<400> Phe Pro Ser Gly Asn Phe Ser Leu Thr Ala Glu Thr Glu Glu Arg
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<210> SEQ ID NO: 92
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGB$\beta$1 type III receptor
<220> Domain: 145-159
<400> Phe Ser Leu Thr Ala Glu Thr Glu Glu Arg Asn Phe Pro Gln Glu
                         5
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<210> SEQ ID NO: 93
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGB\beta1 type III receptor
<220> Domain: 150-164
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<210> SEQ ID NO: 94
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGB\beta1 type III receptor
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<400> Asn Phe Pro Gln Glu Asn Glu His Leu Val Arg Trp Ala Gln Lys
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                         5
<210> SEQ ID NO: 95
<211> 15
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<212> Peptide

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<213> Synthetic peptide from rat TGBβ1 type III receptor
<220> Domain: 160-174
<400> Asn Glu His Leu Val Arg Trp Ala Gln Lys Glu Tyr Gly Ala Val
                                            10
<210> SEQ ID NO: 96
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGB\beta1 type III receptor
<220> Domain: 165-179
<400> Arg Trp Ala Gln Lys Glu Tyr Gly Ala Val Thr Ser Phe Thr Glu
                                            10
                                                                 15
<210> SEQ ID NO: 97
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGB\beta1 type III receptor
<220> Domain: 170-184
<400> Glu Tyr Gly Ala Val Thr Ser Phe Thr Glu Leu Lys Ile Ala Arg
                         5
<210> SEQ ID NO: 98
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGB$\beta$1 type III receptor
<220> Domain: 175-189
<400> Thr Ser Phe Thr Glu Leu Lys Ile Ala Arg Asn Ile Tyr Ile Lys
<210> SEQ ID NO: 99
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGB\beta1 type III receptor
<220> Domain: 180-194
<400> Leu Lys Ile Ala Arg Asn Ile Tyr Ile Lys Val Gly Glu Asp Gln
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                                      10
<210> SEQ ID NO: 100
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGBB1 type III receptor
<220> Domain: 185-199
<400> Asn Ile Tyr Ile Lys Val Gly Glu Asp Gln Val Phe Pro Pro Thr
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<213> Synthetic peptide from rat TGBβ1 type III receptor

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<210> SEQ ID NO: 102
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<213> Synthetic peptide from rat TGB\beta1 type III receptor
<220> Domain: 195-209
<400> Val Phe Pro Pro Thr Cys Asn Ile Gly Lys Asn Phe Leu Ser Leu
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<210> SEQ ID NO: 103
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGB\beta 1 type III receptor
<220> Domain: 200-214
<400> Cys Asn Ile Gly Lys Asn Phe Leu Ser Leu Asn Tyr Leu Ala Glu
<210> SEQ ID NO: 104
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGBβ1 type III receptor
<220> Domain: 205-219
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<212> Peptide
<213> Synthetic peptide from rat TGB$1 type III receptor
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<210> SEQ ID NO: 106
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGBβ1 type III receptor
<220> Domain: 215-229
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<213> Synthetic peptide from rat TGBβ1 type III receptor

<211> 15

<212> Peptide

<220> Domain: 220-234

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<400> Ala Ala Glu Gly Cys Val Leu Pro Ser Gln Pro His Glu Lys Glu
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<212> Peptide
<213> Synthetic peptide from rat TGBβ1 type III receptor
<220> Domain: 225-239
<400> Val Leu Pro Ser Gln Pro His Glu Lys Glu Val His Ile Ile Glu
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<210> SEQ ID NO: 109
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGBβ1 type III receptor
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<400> Pro His Glu Lys Glu Val His Ile Ile Glu Leu Ile Thr Pro Ser
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<210> SEQ ID NO: 110
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGBβ1 type III receptor
<220> Domain: 235-249
<400> Val His Ile Ile Glu Leu Ile Thr Pro Ser Ser Asn Pro Tyr Ser
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<210> SEQ ID NO: 111
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGB$\beta$1 type III receptor
<220> Domain: 240-254
<400> Leu Ile Thr Pro Ser Ser Asn Pro Tyr Ser Ala Phe Gln Val Asp
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<210> SEQ ID NO: 112
<211> 15
<212> Peptide
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<220> Domain: 250-264
<400> Ala Phe Gln Val Asp Ile Ile Val Asp Ile Arg Pro Ala Gln Glu
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- <210> SEQ ID NO: 113
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat $TGB\beta1$ type III receptor
- <220> Domain: 255-269
- <400> Ile Ile Val Asp Ile Arg Pro Ala Gln Glu Asp Pro Glu Val Val

5 10 15

- <210> SEQ ID NO: 114
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat TGB β 1 type III receptor
- <220> Domain: 260-274
- <400> Arg Pro Ala Gln Glu Asp Pro Glu Val Val Lys Asn Leu Val Leu
 5 10 15
- <210> SEQ ID NO: 115
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat TGB $\beta1$ type III receptor
- <220> Domain: 265-279
- <400> Asp Pro Glu Val Val Lys Asn Leu Val Leu Ile Leu Lys Cys Lys $5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$
- <210> SEQ ID NO: 116
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat TGB β 1 type III receptor
- <220> Domain: 270-284
- <400> Lys Asn Leu Val Leu Ile Leu Lys Cys Lys Lys Ser Val Asn Trp
 5 10 15
- <210> SEQ ID NO: 117
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat TGBβ1 type III receptor
- <220> Domain: 275-289
- <400> Ile Leu Lys Cys Lys Lys Ser Val Asn Trp Val Ile Lys Ser Phe 5 10 15
- <210> SEQ ID NO: 118
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat $TGB\beta1$ type III receptor
- <220> Domain: 280-294
- <400> Lys Ser Val Asn Trp Val Ile Lys Ser Phe Asp Val Lys Gly Asn
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- <210> SEQ ID NO: 119
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat TGB\$1 type III receptor
- <220> Domain: 285-299
- <400> Val Ile Lys Ser Phe Asp Val Lys Gly Asn Leu Lys Val Ile Ala 5 10 15

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<210> SEQ ID NO: 120
<211> 15
<212> Peptide
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<210> SEQ ID NO: 121
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<212> Peptide
<213> Synthetic peptide from rat TGBβ1 type III receptor
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<400> Leu Lys Val Ile Ala Pro Asn Ser Ile Gly Phe Gly Lys Glu Ser
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<210> SEQ ID NO: 122
<211> 15
<212> Peptide
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<220> Domain: 300-314
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<210> SEQ ID NO: 123
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGBB1 type III receptor
<220> Domain: 305-319
<400> Phe Gly Lys Glu Ser Glu Arg Ser Met Thr Met Thr Lys Leu Val
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<213> Synthetic peptide from rat TGB$1 type III receptor
<220> Domain: 310-324
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                                                                  15
<210> SEQ ID NO: 125
<211> 15
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<213> Synthetic peptide from rat TGBβ1 type III receptor
<220> Domain: 325-329
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 <211> 15
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<213> Synthetic peptide from rat TGB\beta1 type III receptor
<220> Domain: 350-364
<223> Descripcion/Posicion
<400> Val Ala Asn Arg Phe His Leu Arg Leu Glu Asn Asn Glu Glu Met
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<210> SEQ ID NO: 133
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGB\beta1 type III receptor
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<400> His Leu Arg Leu Glu Asn Asn Glu Glu Met Arg Asp Glu Glu Val
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<211> 15
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<213> Synthetic peptide from rat TGB$\beta$1 type III receptor
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<211> 15
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<213> Synthetic peptide from rat TGB$1 type III receptor
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<400> Arg Asp Glu Glu Val His Thr Ile Pro Pro Glu Leu Arg Ile Leu
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<213> Synthetic peptide from rat TGB$1 type III receptor
<220> Domain: 375-389
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<213> Synthetic peptide from rat fetuin
<220> Domain: 114-132
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Gln Cys
<210> SEQ ID NO: 151
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<213> Synthetic peptide from sheep fetuin
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Cys Asp
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<211> 15
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<213> Synthetic peptide from pig endoglin
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<210> SEQ ID NO: 154
<211> 15
<212> Peptide
<213> Synthetic peptide from pig endoglin
<220> Domain: 479-493
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<210> SEQ ID NO: 155
<211> 12
<212> Peptide
<213> Synthetic peptide from human alpha 2 microglobulin
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<220> Domain: 13-24

<400> Leu Leu Leu Val Leu Leu Pro Thr Asp Ala Ser 5 10

- <210> SEQ ID NO: 156
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from human alpha 2 microglobulin
- <220> Domain: 20-31
- <400> Pro Thr Asp Ala Ser Val Ser Gly Lys Pro Gln Tyr
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- <210> SEQ ID NO: 157
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from human alpha 2 microglobulin
- <220> Domain: 44-55
- <400> Thr Glu Lys Gly Cys Val Leu Leu Ser Tyr Leu Asn
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- <210> SEQ ID NO: 158
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from human alpha 2 microglobulin
- <220> Domain: 166-177
- <400> Tyr Ile Gln Asp Pro Lys Gly Asn Arg Ile Ala Gln 5
- <210> SEQ ID NO: 159
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from human alpha 2 microglobulin
- <220> Domain: 192-203
- <400> Phe Pro Leu Ser Ser Glu Pro Phe Gln Gly Ser Tyr
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- <210> SEQ ID NO: 160
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from human alpha 2 microglobulin
- <220> Domain: 247-258
- <400> Asn Val Ser Val Cys Gly Leu Tyr Thr Tyr Gly Lys
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- <210> SEQ ID NO: 161
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from human alpha 2 microglobulin
- <220> Domain: 248-259
- <400> Val Ser Val Cys Gly Leu Tyr Thr Tyr Gly Lys Pro

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<210> SEQ ID NO: 175

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- <220> Domain: 1232-1243
- <400> Tyr Gly Arg Asn Gln Gly Asn Thr Trp Leu Thr Ala
- <210> SEQ ID NO: 179
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from human alpha 2 microglobulin
- <220> Domain: 1234-1245
- <400> Arg Asn Gln Gly Asn Thr Trp Leu Thr Ala Phe Val 5 10

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<110> EZQUERRO SAENZ, Ignacio Jose
      LASARTE SAGASTIBELZA, Juan Jose
      PRIETO VALTUEÑA, Jesus
      BORRAS CUESTA, Francisco
<120> TGF\betab1-inhibitor peptides
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<212> Peptide

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<210> SEQ ID NO: 7
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<210> SEQ ID NO: 8
<211> 15
<212> Peptide
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<210> SEQ ID NO: 9
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<212> Peptide
<213> Synthetic peptide from pig endoglin
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  <210> SEQ ID NO: 11
  <211> 14
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  <210> SEQ ID NO: 12
  <211> 13
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  <210> SEQ ID NO: 13
  <211> 14
  <212> Peptide
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  <220> Domain: 288-301
  <400> Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile
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  <210> SEQ ID NO: 14
  <211> 14
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  <210> SEQ ID NO: 15
  <211> 14
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  <220> Domain: 298-311
  <400> Gln Leu Tyr Ile Asp Phe Arg Lys Asp Leu Gly Trp Lys Trp
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<210> SEQ ID NO: 16
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<211> 14

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<210> SEQ ID NO: 17
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<213> Synthetic peptide from human TGB$1
<220> Domain: 306-319
<400> Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr His
<210> SEQ ID NO: 18
<211> 14
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<213> Synthetic peptide from human TGB$1
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<400> Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr His Ala Asn
<210> SEQ ID NO: 19
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<212> Peptide
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<210> SEQ ID NO: 20
<211> 14
<212> Peptide
<213> Synthetic peptide from human TGB\beta1.
<220> Domain: 316-329
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<210> SEQ ID NO: 21
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<212> Peptide
<213> Synthetic peptide from human TGB\beta1
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<210> SEQ ID NO: 22
<211> 14
<212> Peptide
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<400> Ile Trp Ser Leu Asp Thr Gln Tyr Ser Lys Val Leu Ala Leu
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<211> 15
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<213> Synthetic peptide from human TGB\beta1
<220> Domain: 335-349
<400> Thr Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro
<210> SEQ ID NO: 24
<211> 14
<212> Peptide
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<220> Domain: 336-349
<400> Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro
<210> SEQ ID NO: 25
<211> 1.4
<212> Peptide
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<220> Domain: 340-353
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<210> SEQ ID NO: 26
<211> 15
<212> Peptide
<213> Synthetic peptide from human TGB$1
<220> Domain: 343-358
<400> Leu Tyr Asn Gln His Asn Pro Gly Ala Ser Ala Ala Pro Cys Cys
<210> SEQ ID NO: 27
<211> 14
<212> Peptide
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<220> Domain: 91-102
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- <210> SEQ ID NO: 47
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from rat TGB β 1 type III receptor
- <220> Domain: 104-115
- <400> Val Phe Leu Leu Asn Ser Pro Gln Pro Leu Val Trp
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- <210> SEQ ID NO: 48
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from rat TGB β 1 type III receptor
- <220> Domain: 109-120
- <400> Ser Pro Gln Pro Leu Val Trp His Leu Lys Thr Glu 5
- <210> SEQ ID NO: 49
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from rat TGBβ1 type III receptor
- <220> Domain: 110-121
- <400> Pro Gln Pro Leu Val Trp His Leu Lys Thr Glu Arg 5
- <210> SEQ ID NO: 50
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from rat TGB β 1 type III receptor
- <220> Domain: 333-344
- <400> Trp Ala Leu Asp Asn Gly Tyr Arg Pro Val Thr Ser
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- <210> SEQ ID NO: 51
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from rat TGB β 1 type III receptor
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- <400> Pro Ile Val Pro Ser Val Gln Leu Pro Asp His
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- <210> SEQ ID NO: 52
- <211> 12
- <212> Peptide
- <213> Synthetic peptide from rat TGB β 1 type III receptor
- <220> Domain: 555-566

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<400> Ser Arg Lys Lys Gly Ser Leu Lys Leu Pro Arg Cys
<210> SEQ ID NO: 58
<211> 12
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<213> Synthetic peptide from rat TGB\beta1 type III receptor
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<400> Ser Leu Lys Leu Pro Arg Cys Val Thr Pro Asp Asp

<220> Domain: 717-728

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<400> Asp Asp Ala Cys Thr Ser Leu Asp Ala Thr Met Ile
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<400> Met Ile Trp Thr Met Met Gln Asn Lys Lys Thr Phe
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<220> Domain: 747-758

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<210> SEQ ID NO: 96
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<210> SEQ ID NO: 97
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGB\beta1 type III receptor
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<212> Peptide
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<213> Synthetic peptide from rat TGB\$\beta\$1 type III receptor

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<220'> Domäin: 190-201
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- <210> SEQ ID NO: 102
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat $TGB\beta1$ type III receptor
- <220> Domain: 195-209
- <400> Val Phe Pro Pro Thr Cys Asn Ile Gly Lys Asn Phe Leu Ser Leu 5 10 15
- <210> SEQ ID NO: 103
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat $TGB\beta1$ type III receptor
- <220> Domain: 200-214
- <400> Cys Asn Ile Gly Lys Asn Phe Leu Ser Leu Asn Tyr Leu Ala Glu 5 10 15
- <210> SEQ ID NO: 104
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat $TGB\beta1$ type III receptor
- <220> Domain: 205-219
- <400> Asn Phe Leu Ser Leu Asn Tyr Leu Ala Glu Tyr Leu Gln Pro Lys
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- <210> SEQ ID NO: 105
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat TGBβ1 type III receptor
- <220> Domain: 210-224
- <400> Asn Tyr Leu Ala Glu Tyr Leu Gln Pro Lys Ala Ala Glu Gly Cys
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- <210> SEQ ID NO: 106
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat TGBβ1 type III receptor
- <220> Domain: 215-229
- <400> Tyr Leu Gln Pro Lys Ala Ala Glu Gly Cys Val Leu Pro Ser Gln 5 10 15
- <210> SEQ ID NO: 107
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat $TGB\beta1$ type III receptor
- <220> Domain: 220-234

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- <210> SEQ ID NO: 108
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat TGBβ1 type III receptor
- <220> Domain: 225-239
- <400> Val Leu Pro Ser Gln Pro His Glu Lys Glu Val His Ile Ile Glu
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- <210> SEQ ID NO: 109
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat TGB\$1 type III receptor
- <220> Domain: 230-244
- <400> Pro His Glu Lys Glu Val His Ile Ile Glu Leu Ile Thr Pro Ser
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- <210> SEQ ID NO: 110
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat TGB β 1 type III receptor
- <220> Domain: 235-249
- <400> Val His Ile Ile Glu Leu Ile Thr Pro Ser Ser Asn Pro Tyr Ser 5 10 15
- <210> SEQ ID NO: 111
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat TGB β 1 type III receptor
- <220> Domain: 240-254
- <400> Leu Ile Thr Pro Ser Ser Asn Pro Tyr Ser Ala Phe Gln Val Asp
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- <210> SEQ ID NO: 112
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat $TGB\beta1$ type III receptor
- <220> Domain: 250-264
- <400> Ala Phe Gln Val Asp Ile Ile Val Asp Ile Arg Pro Ala Gln Glu
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- <210> SEQ ID NO: 113
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat TGB\$\beta\$1 type III receptor
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- <400> Ile Ile Val Asp Ile Arg Pro Ala Gln Glu Asp Pro Glu Val Val

5 10 15

- <210> SEQ ID NO: 114 <211> 15 <212> Peptide
- <213> Synthetic peptide from rat TGB β 1 type III receptor
- <220> Domain: 260-274
- <400> Arg Pro Ala Gln Glu Asp Pro Glu Val Val Lys Asn Leu Val Leu
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- <210> SEQ ID NO: 115
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat TGB β 1 type III receptor
- <220> Domain: 265-279
- <400> Asp Pro Glu Val Val Lys Asn Leu Val Leu Ile Leu Lys Cys Lys
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- <210> SEQ ID NO: 116
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat $TGB\beta1$ type III receptor
- <220> Domain: 270-284
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- <210> SEQ ID NO: 117
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat TGB β 1 type III receptor
- <220> Domain: 275-289
- <400> Ile Leu Lys Cys Lys Lys Ser Val Asn Trp Val Ile Lys Ser Phe
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- <210> SEQ ID NO: 118
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat $TGB\beta1$ type III receptor
- <220> Domain: 280-294
- <400> Lys Ser Val Asn Trp Val Ile Lys Ser Phe Asp Val Lys Gly Asn 5 10 15
- <210> SEQ ID NO: 119
- <211> 15
- <212> Peptide
- <213> Synthetic peptide from rat TGB β 1 type III receptor
- <220> Domain: 285-299
- <400> Val Ile Lys Ser Phe Asp Val Lys Gly Asn Leu Lys Val Ile Ala 5 10 15

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<210> SEQ ID NO: 130
<211> 15
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<400> Arg Pro Val Thr Ser Tyr Thr Met Ala Pro Val Ala Asn Arg Phe
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<210> SEQ ID NO: 131
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGBβ1 type III receptor
<220> Domain: 345-359
<400> Tyr Thr Met Ala Pro Val Ala Asn Arg Phe His Leu Arg Leu Glu
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<210> SEO, ID NO: 132
  <211> 15
  <212> Peptide
'<213> Synthetic peptide from rat TGBβ1 type III receptor
  <220> Domain: 350-364
  <223> Descripcion/Posicion
  <400> Val Ala Asn Arg Phe His Leu Arg Leu Glu Asn Asn Glu Glu Met
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 <210> SEQ ID NO: 133
 <211> 15
 <212> Peptide
 <213> Synthetic peptide from rat TGB$\beta$1 type III receptor
 <220> Domain: 355-369
 <400> His Leu Arg Leu Glu Asn Asn Glu Glu Met Arg Asp Glu Glu Val
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 <210> SEQ ID NO: 134
 <211> 15
 <212> Peptide
 <213> Synthetic peptide from rat TGB\beta1 type III receptor
 <220> Domain: 360-374
 <400> Asn Asn Glu Glu Met Arg Asp Glu Glu Val His Thr Ile Pro Pro
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<210> SEQ ID NO: 135
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGBβ1 type III receptor
<220> Domain: 365-369
<400> Arg Asp Glu Glu Val His Thr Ile Pro Pro Glu Leu Arg Ile Leu
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<210> SEQ ID NO: 136
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGB$\textit{\begin{aligned} 1 \text{TGB}$ 1 \text{TGB
<220> Domain: 370-384
<400> His Thr Ile Pro Pro Glu Leu Arg Ile Leu Leu Asp Pro Asp His
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<210> SEQ ID NO: 137
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGBB1 type III receptor
<220> Domain: 375-389
<400> Glu Leu Arg Ile Leu Leu Asp Pro Asp His Pro Pro Ala Leu Asp
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<210> SEQ" ID NO: 138
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGBβ1 type III receptor
<220> Domain: 380-394
<400> Leu Asp Pro Asp His Pro Pro Ala Leu Asp Asn Pro Leu Phe Pro
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<210> SEQ ID NO: 139
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGBβ1 type III receptor
<220> Domain: 385-399
<400> Pro Pro Ala Leu Asp Asn Pro Leu Phe Pro Gly Glu Gly Ser Pro
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<210> SEQ ID NO: 140
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGB\beta 1 type III receptor
<220> Domain: 390-404
<400> Asn Pro Leu Phe Pro Gly Glu Gly Ser Pro Asn Gly Gly Leu Pro
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<210> SEQ ID NO: 141
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGB$\beta$1 type III receptor
<220> Domain: 395-409
<400> Gly Glu Gly Ser Pro Asn Gly Gly Leu Pro Phe Pro Phe Pro Asp
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<210> SEQ ID NO: 142
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGB\beta1 type III receptor
<220> Domain: 400-414
<400> Asn Gly Gly Leu Pro Phe Pro Phe Pro Asp Ile Pro Arg Arg Gly
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<210> SEQ ID NO: 143
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGBβ1 type III receptor
<220> Domain: 405-419
<400> Phe Pro Phe Pro Asp Ile Pro Arg Arg Gly Trp Lys Glu Gly Glu
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<210> SEQ ID NO: 144

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<211> 12 ...
<212> Peptide
<213> Modified synthetic peptide from rat TGB\beta1 type III receptor
<220> Domain: 731-742
<400> Thr Ser Leu Asp Ala Thr Met Ile Trp Asp Asp Asp
<210> SEQ ID NO: 145
<211> 11
<212> Peptide
<213> Modified synthetic peptide from rat TGB\beta1 type III receptor
<220> Domain: 731-742
<400> Asp Asp Asp Ala Thr Met Ile Trp Thr Met Met
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<210> SEQ ID NO: 146
<211> 7
<212> Peptide
<213> Modified synthetic peptide from rat TGB$1 type III receptor
<220> Domain: 734-740
<400> Asp Ala Thr Met Ile Trp Asp
<210> SEQ ID NO: 147
<211> 9
<212> Peptide
<213> Modified synthetic peptide from rat TGB\beta1 type III receptor
<220> Domain: 731-739
<400> Thr Ser Leu Asp Ala Thr Thr Met Met
<210> SEQ ID NO: 148
<211> 18
<212> Peptide
<213> synthetic peptide from rat TGBβ1 type II receptor
<220> Domain: 84-101
<400> Cys Val Ala Val Trp Arg Lys Asn Asp Glu Asn Ile Thr Leu Glu Thr Val
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Cys
<210> SEQ ID NO: 149
<211> 19
<212> Peptide
<213> Synthetic peptide from human fetuin
<220> Domain: 114-132
<400> Cys Asp Phe Gln Leu Leu Lys Leu Asp Gly Lys Phe Ser Val Val Tyr Ala
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Lys Cys
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<210> SEQ ID NO: 150
<211> 18
<212> Peptide
<213> Synthetic peptide from rat fetuin
<220> Domain: 114-132
<400> Cys Asp Phe His Ile Leu Lys Gln Asp Gly Gln Phe Arg Val Cys His Ala
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Gln Cys
<210> SEQ ID NO: 151
<211> 18
<212> Peptide
<213> Synthetic peptide from sheep fetuin
<220> Domain: 114-132
<400> Cys Asp Ile His Val Leu Lys Gln Asp Gly Phe Ser Val Leu Phe Thr Lys
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Cys Asp
<210> SEQ ID NO: 152
<211> 15
<212> Peptide
<213> Synthetic peptide from pig endoglin
<220> Domain: 289-303
<400> Val Asn Leu Pro Asp Thr Arg Gln Gly Leu Leu Glu Glu Ala Arg
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<210> SEQ ID NO: 153
<211> 15
<212> Peptide
<213> Synthetic peptide from pig endoglin
<220> Domain: 481-495
<400> Pro Ser Ile Pro Glu Leu Met Thr Gln Leu Asp Ser Cys Gln Leu
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<210> SEQ ID NO: 154
<211> 15
<212> Peptide
<213> Synthetic peptide from pig endoglin
<220> Domain: 479-493
<400> Met Ser Pro Ser Ile Pro Glu Leu Met Thr Gln Leu Asp Ser Cys
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<210> SEQ ID NO: 155
<211> 12
<212> Peptide
<213> Synthetic peptide from human alpha 2 microglobulin
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<220> Domain: 13-24
<400> Leu Leu Leu Val Leu Pro Thr Asp Ala Ser
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<210> SEQ ID NO: 156
<211> 12
<212> Peptide
<213> Synthetic peptide from human alpha 2 microglobulin
<220> Domain: 20-31
<400> Pro Thr Asp Ala Ser Val Ser Gly Lys Pro Gln Tyr
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<210> SEQ ID NO: 157
<211> 12
<212> Peptide
<213> Synthetic peptide from human alpha 2 microglobulin
<220> Domain: 44-55
<400> Thr Glu Lys Gly Cys Val Leu Leu Ser Tyr Leu Asn
<210> SEQ ID NO: 158
<211> 12
<212> Peptide
<213> Synthetic peptide from human alpha 2 microglobulin
<220> Domain: 166-177
<400> Tyr Ile Gln Asp Pro Lys Gly Asn Arg Ile Ala Gln
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<210> SEQ ID NO: 159
<211> 12
<212> Peptide
<213> Synthetic peptide from human alpha 2 microglobulin
<220> Domain: 192-203
<400> Phe Pro Leu Ser Ser Glu Pro Phe Gln Gly Ser Tyr
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<210> SEQ ID NO: 160
<211> 12
<212> Peptide
<213> Synthetic peptide from human alpha 2 microglobulin
<220> Domain: 247-258
<400> Asn Val Ser Val Cys Gly Leu Tyr Thr Tyr Gly Lys
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<210> SEQ ID NO: 161
<211> 12
<212> Peptide
<213> Synthetic peptide from human alpha 2 microglobulin
<220> Domain: 248-259
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<400> Val Ser Val Cys Gly Leu Tyr Thr Tyr Gly Lys Pro

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<210> SEQ ID NO: 162
<211> 12
<212> Peptide
<213> Synthetic peptide from human alpha 2 microglobulin
<220> Domain: 250-261
<400> Val Cys Gly Leu Tyr Thr Tyr Gly Lys Pro Val Pro
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<210> SEQ ID NO: 163
<211> 12
<212> Peptide
<213> Synthetic peptide from human alpha 2 microglobulin
<220> Domain: 267-278
<400> Ser Ile Cys Arg Lys Tyr Ser Asp Ala Ser Asp Cys
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<210> SEQ ID NO: 164
<211> 12
<212> Peptide
<213> Synthetic peptide from human alpha 2 microglobulin
<220> Domain: 469-480
<400> Pro Cys Gly His Thr Gln Thr Val Gln Ala His Tyr
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<210> SEQ ID NO: 165
<211> 12
<212> Peptide
<213> Synthetic peptide from human alpha 2 microglobulin
<220> Domain: 554-565
<400> Asp Ser Ala Lys Tyr Asp Val Glu Asn Cys Leu Ala
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<210> SEQ ID NO: 167
<211> 12
<212> Peptide
<213> Synthetic peptide from human alpha 2 microglobulin
<220> Domain: 790-801
<400> Gln Pro Phe Phe Val Glu Leu Thr Met Pro Tyr Ser
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<210> SEQ ID NO: 168
<211> 12
<212> Peptide
<213> Synthetic peptide from human alpha 2 microglobulin
<220> Domain: 827-838
<400> Gln Leu Glu Ala Ser Pro Ala Phe Leu Ala Val Pro
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<210> SEQ ID NO: 169
<211> 12
<212> Peptide
<213> Synthetic peptide from human alpha 2 microglobulin
<220> Domain: 825-836
<400> Ser Val Gln Leu Glu Ala Ser Pro Ala Phe Leu Ala
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<210> SEQ ID NO: 170
<211> 12
<212> Peptide
<213> Synthetic peptide from human alpha 2 microglobulin
<220> Domain: 876-887
<400> Ala Leu Glu Ser Gln Glu Leu Cys Gly Thr Glu Val
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<210> SEQ ID NO: 171
<211> 11
<212> Peptide
<213> Synthetic peptide from human alpha 2 microglobulin
<220> Domain: 1001-1012
<400> Lys Ser Lys Ile Gly Tyr Leu Asn Thr Gly Tyr
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<210> SEQ ID NO: 172
<211> 12
<212> Peptide
<213> Synthetic peptide from human alpha 2 microglobulin
<220> Domain: 1005-1016
<400> Ile Gly Tyr Leu Asn Thr Gly Tyr Gln Arg Gln Leu
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<210> SEQ ID NO: 173
<211> 12
<212> Peptide
<213> Synthetic peptide from human alpha 2 microglobulin
<220> Domain: 1162-1173
<400> Lys Arg Lys Glu Val Leu Lys Ser Leu Asn Glu Glu
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<210> SEQ ID NO: 174
<211> 12
<212> Peptide
<213> Synthetic peptide from human alpha 2 microglobulin
<220> Domain: 1193-1204
<400> Val Gly His Phe Tyr Glu Pro Gln Ala Pro Ser Ala
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<210> SEQ ID NO: 175

<211> 12 -<212> Peptide <213> Synthetic peptide from human alpha 2 microglobulin <220> Domain: 1209-1220 <400> Thr Ser Tyr Val Leu Leu Ala Tyr Leu Thr Gln Ala <210> SEQ ID NO: 176 <211> 12 <212> Peptide <213> Synthetic peptide from human alpha 2 microglobulin <220> Domain: 1211-1222 <400> Tyr Val Leu Leu Ala Tyr Leu Thr Ala Gln Pro Ala <210> SEQ ID NO: 177 <211> 12 <212> Peptide <213> Synthetic peptide from human alpha 2 microglobulin <220> Domain: 1256-1267 <400> Val Ala Leu His Ala Leu Ser Lys Tyr Gly Ala Ala 5 <210> SEQ ID NO: 178 <211> 12 <212> Peptide <213> Synthetic peptide from human alpha 2 microglobulin <220> Domain: 1232-1243 <400> Tyr Gly Arg Asn Gln Gly Asn Thr Trp Leu Thr Ala

<210> SEQ ID NO: 179

<211> 12

<212> Peptide

<213> Synthetic peptide from human alpha 2 microglobulin

<220> Domain: 1234-1245

<400> Arg Asn Gln Gly Asn Thr Trp Leu Thr Ala Phe Val 5

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